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# IN VIVO OBJECT MOVEMENT DETECTOR BY ULTRASONIC DOPPLER METHOD

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- European:

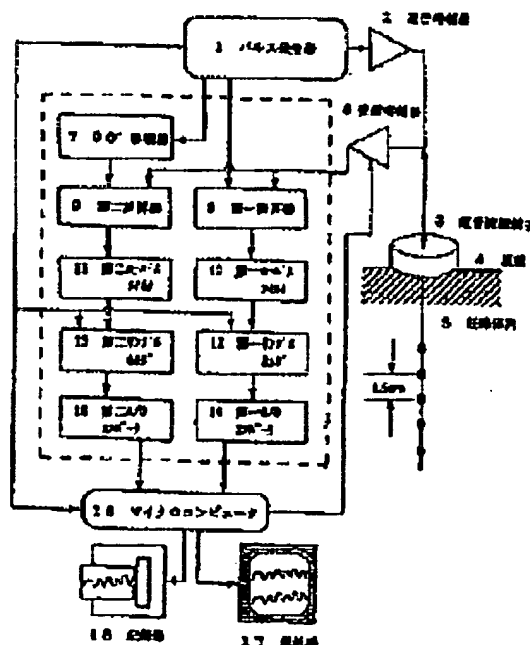
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## Abstract of JP4309334

**PURPOSE:** To obtain the information on in vivo object movements, such as directions, displacement quantities and displacing speeds of the fetal movement, fetal respiration-like movements, etc., which are heretofore not obtainable by an ultrasonic(UT) Doppler method, and to simultaneously obtain not only the information on the ultrasonic probe-fetal movements but also the information on the fetal respiration-like movements and the information on fetal heart beats, etc., with one ultrasonic probe. **CONSTITUTION:** Burst ultrasonic waves are made incident on the inside of a pregnant woman body 5 from the ultrasonic probe 3 and the received signals are supplied to multipliers 8, 9 by which the signals are subjected to AC-DC detection. The results of the computation are sampled by a timing signal and are digitalized by A/D converters 14, 15. The digital signals are supplied to a microcomputer 16 and are subjected to data processing.



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